

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A method of microscopic visualization of a three-dimensional object, ~~wherein the sample (1) is visualized~~ comprising:

visualizing the object through an interferometer ~~[[2]]~~, ~~characterized in that~~

wherein local probes [[9]] of nanometric dimensions are inserted in the sample (1) object, the local probes numbering at least one hundred in a field observed and being animated by a movement.

2. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 1, ~~characterized in that~~ wherein the local probes ~~[[9]]~~ are balls.

3. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 1, ~~characterized in that~~ wherein the local probes ~~[[9]]~~ are metallic.

4. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 1, ~~characterized in that~~ wherein the interferometer ~~[[2]]~~ is a Michelson interferometer.

5. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 1, ~~characterized in that~~ wherein the interferometer ~~[[2]]~~ is a Linnik interferometer.

6. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 1, ~~characterized in that~~ wherein the interferometer ~~[[2]]~~ is a Mirau interferometer.

7. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 4, ~~characterized in that~~ wherein the interferometer ~~[[2]]~~ includes a wide spectrum source ~~[[5]]~~.

8. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 7, ~~characterized in that~~ wherein the source ~~[[5]]~~ delivers short light pulses.

9. (currently amended) A method of microscopic visualization of a three-dimensional object according to claim 1, ~~characterized in that~~ wherein optical means form the picture of a thin slice of the object on a matrix detector ~~[[6]]~~ via the interferometer ~~[[2]]~~.

10. (currently amended) A device of microscopic visualization of a three-dimensional object comprising:

- an interferometer ~~(2)~~1
- a wide spectrum source ~~(5)~~1

- a matrix sensor ~~(6)~~7;
 - means to form ~~the~~ a picture of a thin slice of the object on the sensor ~~[(6)]~~ via the interferometer ~~(2)~~7;
 - a unit for processing the picture produced by the matrix sensor ~~(6)~~7; and
- ~~characterized in that it includes~~ means for inserting local probes ~~[(9)]~~ in the ~~sample~~ object, the local probes numbering at least one hundred in a field observed and being animated by a movement.